Index of Claims

| Application/Control No | ٥. |
|------------------------|----|
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10/019,516

Examiner

N. Bhat

Applicant(s)/Patent under Reexamination

ECK ET AL.

Art Unit

1764

| ✓ | Rejected |
|---|----------|
| = | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| Ν | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

| Cla                    | aim      | Date   |          |          |          |               | Date Claim D |          |          |   |       |          | Dat      | е               | Claim Dat          |   |         |                 |                      |                     |   |       | ie         |   |              |              |          |          |               |  |   |
|------------------------|----------|--|----------|----------|----------|---------------|--------------|----------|----------|---|-------|----------|----------|-----------------|--------------------|---|---------|-----------------|----------------------|---------------------|---|-------|------------|---|--------------|--------------|----------|----------|---------------|--|---|
|                        | <u>a</u> |  |          |          |          |               |              |          |          |   |       |          | <u>a</u> |                 |                    |   |         |                 |                      |                     |   |       | <u> </u>   |   |              |              |          |          |               |  |   |
| Final                  | Original |  |          |          |          |               |              |          |          |   |       | Final    | Original |                 |                    |   |         |                 |                      |                     |   | Final | Original   |   |              |              |          |          |               |  |   |
| 证                      | Ö        |  |          |          | 1        | ı             |              |          |          |   |       | 证        | 5        |                 |                    |   |         |                 |                      |                     |   | 证     | .j.        |   |              |              |          |          |               |  |   |
| <u> </u>               |          | _  | Ш        | $\dashv$ | _        |               | _            |          |          |   |       | <u> </u> |          | Ш               | $\dashv$           |   |         | Н               |                      | _                   |   |       |            | 4   | _            | _            | 4_       | Ш        | $\dashv$      | 4  |   |
| <u></u>                | 1        |  | Ш        |          | -        | _             | _            |          |          |   |       |          | 51       |                 | _                  | -                                       |         | $\sqcup$        | _                    | $\perp$             |   |       | 101        | _   | _            | _            | ↓_       | Ш        | _             | $\dashv$                                       |   |
|                        | 2        |  | Н        | _        | -        | _             | _            |          | _        |   |       |          | 52       | $\vdash$        |                    |   | _       | $\vdash$        |                      | +                   |   |       | 102        | $\dashv$  |              |              | ļ        | Ш        | _             | _  |   |
|                        | 3        | <u> </u>   | Н        | $\dashv$ | -        | $\dashv$      | $\dashv$     |          | -        | _ |       | ļ        | 53       | Н               | _                  | -                                       | _       | $\vdash$        | _                    | +                   |   |       | 103        | -   | 4            | +            | ╄        | Н        | 4             | _  | _ |
| $\vdash$               | 4        | -  | Н        | $\dashv$ |          | -             | $\dashv$     |          | $\dashv$ |   |       |          | 54       | Н               |                    | +                                       |         | $\vdash$        | +                    | +                   |   |       | 104        | $\rightarrow$                                     | +            | +            | ┼-       | $\vdash$ | $\dashv$      | $\dashv$                                       | _ |
| $\vdash$               | 5<br>6   |  | Н        | $\dashv$ | -        | $\dashv$      | -            |          |          | _ |       |          | 55<br>56 |                 | -                  |   | +-      | ₩               | $\dashv$             |                     |   |       | 105        | $\dashv$  | +            | +-           | ╄        | $\vdash$ | $\perp$       | +  |   |
|                        | 7        | -  | Н        |          | ᅱ        | $\dashv$      |              |          | $\dashv$ |   |       |          | 57       | Н               | -+                 | +                                       | +-      | $\vdash$        |                      | +                   |   |       | 106<br>107 | $\dashv$  | +            | +-           | ╀        | Н        | +             | -  | _ |
|                        | 8        | _  | $\vdash$ |          | $\dashv$ | -             | -            | $\vdash$ | -        | - |       |          | 58       |                 | <b>-</b>           | +                                       | ╁       | ┨               |                      | +                   |   |       | 107        | $\dashv$  |              | ┰            | ╁        | $\vdash$ | -             | $\dashv$                                       | _ |
|                        | 9        | -  | Н        | $\dashv$ | -        | $\dashv$      | $\dashv$     |          | -        | _ |       |          | 59       | Н               |                    | +                                       |         | ╁┼              |                      | -                   |   |       | 109        |   |              | +-           | ╁        | $\vdash$ | $\dashv$      | $\dashv$                                       | _ |
| -                      | 10       | $\vdash$   | Н        | $\dashv$ | ┪        | ᅱ             | $\dashv$     |          |          |   |       |          | 60       | Н               |                    | +                                       | +       | +               |                      | +                   |   |       | 110        | -   | +            | +-           | ╁        | $\vdash$ | +             | $\dashv$                                       | _ |
| $\vdash \vdash$        | 11       | $\vdash$   | H        | $\dashv$ | -        | -             |              | $\vdash$ | $\dashv$ | - |       | _        | 61       | $\vdash$        | $\dashv$           | +                                       | +       | $\vdash$        | $\dashv$             | +                   |   |       | 111        | $\dashv$  | $\dashv$     | +            | +        | $\vdash$ | $\dashv$      | +  | _ |
| $\vdash$               | 12       | <del> </del>                                     | $\vdash$ | $\dashv$ | $\dashv$ | -             | -            | H        | $\dashv$ | - |       |          | 62       | $\vdash$        | +                  | +                                       | +       | $\vdash$        | -                    | +                   |   |       | 112        | $\dashv$  | +            | +            | +-       | $\vdash$ | +             | +  | _ |
| $\vdash$               | 13       | <del>                                     </del> | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$      | -            | $\vdash$ |          | _ |       |          | 63       | $\vdash$        | $\dashv$           | +                                       | +       | $\vdash$        |                      | +                   |   | -     | 113        | +   | +-           | +            | +-       | $\vdash$ | +             | +  |   |
|                        | 14       | 1  | H        | +        | +        | $\dashv$      | -            | $\vdash$ | $\dashv$ |   |       |          | 64       | $\vdash$        | $\dashv$           | +                                       | +       | $\vdash \vdash$ | +                    | +-                  |   |       | 114        | $\dashv$  | -+           | +            | +        | $\vdash$ | +             | +  | _ |
| $\vdash \vdash$        | 15       | V  | $\vdash$ | -        | $\dashv$ | -             | $\dashv$     | $\vdash$ | $\vdash$ | - |       | <u> </u> | 65       | H               | $\dashv$           | +                                       | +       | $\vdash$        | _                    | +                   |   |       | 115        | $\dashv$  | +            | +            | ╁        | $\vdash$ | $\dashv$      | +  | _ |
|                        | 16       | 1  | Н        | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$     |          | $\neg$   | - |       |          | 66       | Н               | $\dashv$           |   | +       | $\vdash$        | -                    | +                   |   |       | 116        | $\dashv$  | $\dashv$     | $\dashv$     | ╁        | Н        | +             | +  |   |
| $\vdash \vdash \vdash$ | 17       | 1  | H        | $\dashv$ | +        | $\dashv$      | -            |          |          | - |       | <b></b>  | 67       | $\vdash \vdash$ | +                  | +                                       | +       | ╁┼              | $\dashv$             | +                   |   |       | 117        | -+  | +            | +            | +        | $\vdash$ | +             | +  | _ |
|                        | 18       | 1  | H        | 十        |          | $\dashv$      | _            |          | $\dashv$ |   |       |          | 68       |                 |                    | +                                       | 1       | 1 1             | $\dashv$             | +                   |   |       | 118        | -+  | +            |              | -        | $\vdash$ |               | +  | _ |
|                        | 19       | 1  | Н        | $\dashv$ | _        | $\dashv$      | $\neg$       |          | $\dashv$ |   |       |          | 69       | $\vdash$        |                    | +                                       | t       | 1-1             | -                    | +                   |   | _     | 119        | $\dashv$  | +            | +            | ┼┈       | $\vdash$ | $\dashv$      | +  | _ |
|                        | 20       | 1  | H        | $\dashv$ | _        | $\dashv$      | $\dashv$     |          |          | _ |       |          | 70       | Н               | -+                 | +                                       | 1       | 1-1             | $\dashv$             | +                   |   |       | 120        | -   | +            | +            | -        | $\vdash$ | $\dashv$      | +  | — |
|                        | 21       | 1  | H        | 寸        | 7        |               | ᅥ            | $\neg$   |          |   |       |          | 71       |                 | -                  | _                                       | T       |                 |                      | +                   |   |       | 121        | +   | +            | +            | $\vdash$ | $\vdash$ | -+            | +  | _ |
|                        | 22       | 1  | П        | 寸        | 一        | $\dashv$      | $\neg$       | $\neg$   |          | _ |       |          | 72       |                 |                    | $\top$                                  | +       | $\Box$          | _                    |                     |   |       | 122        | 十   | _            | +            | t        | $\vdash$ | 十             | $\dashv$                                       | _ |
|                        | 23       | 1  | $\Box$   | 寸        | 寸        | 寸             | 一            | $\dashv$ |          |   |       |          | 73       |                 | _                  | $\top$                                  | Ť       | 1               | $\dashv$             | $\top$              |   |       | 123        | _   | _            | +            | $\vdash$ | Н        | _             | +  | - |
|                        | 24       | 1  | П        | 一        | 寸        | $\neg$        |              | $\vdash$ | $\neg$   | _ |       |          | 74       | Н               |                    | +                                       | $\top$  | 1               | $\dashv$             | 1                   |   |       | 124        | _   | +            | +            | $\vdash$ | $\vdash$ | $\dashv$      | 十  | — |
|                        | 25       | 1  | П        | $\dashv$ | $\neg$   | $\neg$        | _            | $\dashv$ | $\dashv$ |   |       |          | 75       | Н               | 十                  | +                                       | 1-      |                 | -                    | 1                   |   |       | 125        | $\dashv$  | $\top$       | +-           |          | Н        | 十             | -  | _ |
|                        | 26       | 1  | $\Box$   | _        | $\dashv$ | 寸             | 一            | $\Box$   |          |   |       |          | 76       | П               | _                  | +                                       | ╁       | 1 1             | $\dashv$             | +                   |   |       | 126        | +   | $\dashv$     | +            | $\vdash$ | Н        | $\dashv$      | $\dashv$                                       | _ |
|                        | 27       | 1  | П        | 寸        | 寸        | ヿ             | 一            |          |          |   |       |          | 77       |                 |                    | $\top$                                  | T       |                 |                      | $\top$              |   |       | 127        | _   | $\dashv$     | $\dashv$     |          | Н        | $\dashv$      | $\dashv$                                       | _ |
|                        | 28       | 1  | П        | 寸        | $\neg$   | $\neg$        |              |          | $\neg$   |   |       |          | 78       | Н               | 十                  | _                                       | $\top$  |                 | $\dashv$             | $\top$              |   |       | 128        | $\dashv$  | +            | +            | $\vdash$ | Н        | 十             | +  | _ |
|                        | 29       | 1  | П        | 寸        | 寸        |               | 寸            |          |          |   |       |          | 79       |                 | 一                  | $\top$                                  | 1       | H               | $\neg$               | 1                   |   |       | 129        | -   | $\top$       | +            | +        | $\vdash$ |               | +  | _ |
|                        | 30       |  |          |          | ╛        |               | 一            |          | 一        |   |       |          | 80       | П               | $\neg$             |   | 1       | $\vdash$        | $\neg$               | $\top$              |   |       | 130        | 一   | 十            | +-           | $\vdash$ | Н        | _             | $\dashv$                                       | _ |
|                        | 31       |  | П        | $\neg$   |          | $\neg$        | $\neg$       |          | ヿ        |   |       |          | 81       |                 | 一                  |   | 1       |                 | 1                    |                     |   |       | 131        | 一   | $\top$       |              | T        | П        | $\neg \vdash$ | $\dashv$                                       |   |
|                        | 32       |  | П        | 7        | $\dashv$ | 1             | _            |          |          | ╗ |       |          | 82       |                 | $\dashv$           | $\top$                                  | $\top$  | П               | $\neg \vdash$        | 1                   |   |       | 132        | $\dashv$  | 十            | 1            | †        | H        | $\dashv$      | +  | _ |
|                        | 33       |  |          |          | 丁        |               |              |          |          |   |       |          | 83       |                 | $\dashv$           |   | $\top$  | $\sqcap$        |                      | $\top$              |   |       | 133        | $\neg$  | 十            | $\top$       | 1        | П        |               | 十  | _ |
|                        | 34       |  |          |          | $\Box$   |               |              |          |          |   |       |          | 84       |                 | $\top$             |   | Τ       |                 |                      | $\top$              |   |       | 134        | $\neg$  | 十            |              |          | П        | $\neg$        | $\top$   | _ |
|                        | 35       |  |          |          | J        |               |              |          |          |   |       |          | 85       |                 |                    |   |         |                 |                      |                     |   |       | 135        |   |              |              | Τ        | П        | $\neg$        | T  | _ |
|                        | 36       |  |          | $\Box$   | ┚        | $\Box$        | $\Box$       |          | $\Box$   |   |       |          | 86       |                 | $\Box$             |   | Ι       |                 |                      |                     |   |       | 136        |   | T            |              | Π        | П        | $\Box$        | $\top$   | _ |
|                        | 37       |  |          |          | J        |               |              |          |          |   |       |          | 87       |                 | $\Box$             |   |         |                 |                      |                     |   |       | 137        |   | ╗            |              |          |          | $\Box$        | $\top$   | _ |
|                        | 38       |  | Ш        | $\Box$   | $\Box$   |               |              |          | $\Box$   |   |       |          | 88       |                 |                    |   |         |                 |                      |                     |   |       | 138        |   |              |              | $\prod$  |          |               | T  |   |
|                        | 39       |  | $\Box$   |          |          |               |              |          |          |   |       |          | 89       |                 |                    | $oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |         |                 |                      |                     |   |       | 139        |   |              |              |          |          |               | $\Box$   | _ |
|                        | 40       |  |          | $\Box$   | $\Box$   |               |              |          |          |   |       |          | 90       |                 | $oxed{\mathbb{I}}$ |   | oxdot   |                 |                      |                     |   |       | 140        |   | 1            | $oxed{oxed}$ |          |          |               | $\exists T$                                    | _ |
|                        | 41       |  | Ш        |          | _[       | _[            | $\Box$       |          | $\Box$   |   |       |          | 91       | ĹĨ              | $oxed{\bot}$       |   |         | Ш               |                      |                     |   |       | 141        |   | $\prod$      |              |          |          |               | I  |   |
| oxdot                  | 42       | $\Box$   | Ш        |          | $\dashv$ | _             |              | $\sqcup$ |          | ] |       |          | 92       | $oxed{oxed}$    |                    |   |         | $\Box$          |                      |                     |   |       | 142        | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |              |              |          |          |               | $oxed{oxed}$                                   |   |
| oxdot                  | 43       |  | Ш        | $\perp$  |          | $_{\perp}$    |              |          | [        |   |       |          | 93       | Ш               |                    |   |         |                 |                      |                     |   |       | 143        |   | $oxed{oxed}$ |              | L        |          |               | $oxed{oxed}$                                   | _ |
| $oxed{oxed}$           | 44       | L  |          |          | _        |               | _            | Ш        |          |   |       |          | 94       | Ш               | $\perp$            |   | L       | Ц               |                      | $\Box$              |   |       | 144        | $\Box$  |              |              |          |          |               |  | _ |
| $oxed{oxed}$           | 45       |  |          | _        | _        | $\rightarrow$ | $\Box$       | $\Box$   | $\Box$   |   |       | •        | 95       | Ш               | $\perp$            | $\perp$                                 | $\perp$ | Ш               | _                    | ┷                   |   |       | 145        |   |              |              |          | $\Box$   |               | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{I}}}$ | _ |
|                        | 46       | $\Box$   | $\sqcup$ | _        | $\perp$  | _ļ            | $\dashv$     |          | _        | _ |       |          | 96       | Ш               | $\bot$             | $\perp$                                 | 1_      |                 |                      | 4                   |   |       | 146        |   | -1           |              |          |          | $\perp$       | $\perp$  |   |
|                        | 47       | Ш  | $\sqcup$ | $\dashv$ | _        |               | _            |          | _        |   |       |          | 97       | Щ               |                    |   | $\perp$ | Ш               | $\perp$              | $\bot$              |   |       | 147        | $\perp$   | $\perp$      | $\perp$      |          | Ш        |               | Ĺ  |   |
| igwdap                 | 48       |  | Ц        | $\perp$  | _        | _             | _            | _        | _        | _ |       |          | 98       | Ш               | _ _                |   | $\perp$ | $\sqcup$        | _ _                  | $\bot$              |   |       | 148        | $\perp$   |              | $\perp$      | _        | Ш        |               | $\perp$  | _ |
| $oxed{oxed}$           | 49       |  | $\Box$   | 4        | $\dashv$ | _             | _            | _        | _        | _ |       |          | 99       | Щ               | _                  | $\bot$                                  | $\perp$ | Ц               | $\perp \!\!\! \perp$ | $oldsymbol{\sqcup}$ |   |       | 149        | _   | _            | 4            | <u> </u> | Ш        | $\perp$       | $\perp$  |   |
| ш                      | 50       |  |          |          |          |               |              |          |          |   | ::::: |          | 100      |                 |                    |   |         |                 | 1.                   |                     | [ |       | 150        |   | $\perp$      |              |          | LJ       |               |  |   |